

Stokesley \* Rural \* District \* Council.

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Medical Officer's  
Annual Report for the Year 1900.

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STOKESLEY RURAL DISTRICT COUNCIL.

MEDICAL OFFICER'S ANNUAL REPORT FOR  
1900.

MR. CHAIRMAN AND GENTLEMEN,

I beg to submit to you my Report on the mortality and sanitary condition of your district for the year 1900.

There have been 261 births registered during the past year, against 274 in the previous one, giving a birth-rate of 23.47 per 1,000, against an average rate for the last ten years of 26.68 per 1,000, as shewn by Table I. The births consist of 134 boys and 127 girls.

During the past year there have been 183 deaths registered in the District, against 170 in the previous one, giving a death-rate of 16.45 per 1,000. This number requires correction. A case of scarlet fever from Yarm died in the Stockton hospital, and was registered in that District; this makes the correct number of deaths belonging to the District 184, giving a death-rate of 16.54 per 1,000; slightly higher than the average for the last ten years, viz., 16.48 per 1,000, (Table I.). 98 males and 85 females died during the year.

The deaths have thus been distributed over the District according to the corrected list :—

Stokesley .. ..	28,	giving a death-rate of 18.5 per 1,000.
Great Ayton .. ..	35,	" " 20.26 "
Yarm .. ..	43,	" " 26.74 "
Broughton .. ..	6,	" " 11.9 "
Hutton .. ..	10,	" " 12.18 "
Whorlton .. ..	2,	" " 4.62 "
Remainder of the District ..	54,	" " 11.3 "
Workhouse .. ..	6.	

By examining Table II. you will notice that the number of deaths at Yarm and Great Ayton are a good deal over the average. At Yarm there has been an outbreak of scarlet fever, which has accounted for three deaths; there was also one from diphtheria, and one from influenza. At Ayton there was an outbreak of influenza, which accounted for two deaths, and there was also one from erysipelas. Except for these causes, there is nothing especially to account for the increase.

At Stokesley it is the exact average, whilst in the rest of the District it is below.

The deaths from the Zymotic diseases that have to be notified consist of three from scarlet fever, (including the one that died out of the District), one from diphtheria, all belonging to Yarm; one from erysipelas, at Great Ayton; making five altogether, against one the previous year.

On examining Table IV. you will notice there has been one death from whooping-cough, seven from influenza, six from phthisis, two from other tubercular diseases, eleven from cancer, twenty-seven from diseases of the respiratory organs, and twenty-one from heart disease.

The deaths in the District have occurred at the subjoined ages :—

	At all ages.	Under 1 year.	1 and under 5	5 and under 15	15 and under 25	25 and under 65	65 and upwards
Stokesley .. ..	28	5	5	..	..	4	14
Ayton .. ..	35	6	1	3	1	9	15
Yarm .. ..	42	7	4	2	1	12	16
Broughton .. ..	6	..	..	..	..	1	5
Hutton .. ..	10	2	..	1	..	3	4
Whorlton .. ..	2	..	..	..	..	..	2
Remainder of the District ..	54	9	5	1	3	17	19
Workhouse .. ..	6	..	1	..	..	2	3
TOTAL ..	183	29	16	7	5	48	78

There have been twenty-nine deaths under a year old, giving a death-rate of 114.94 per 1,000 births registered, against a rate of 149.63 per 1,000 for last year, or an average rate of 116.95 for the last ten years.



## Zymotic Diseases.

There have been notified during the past year, as you will perceive by Table III., eighty-seven cases, against twenty-nine in the previous one. This is the largest number since the Act came into force in March, 1893. They consist of—

- 84 cases of scarlet fever, viz.: 50 at Yarm, 14 at Ayton, 7 at Seamer, 6 at Hilton, 4 at Nunthorpe, 2 at Hutton, and 1 at Stokesley;
- 1 case of diphtheria at Yarm;
- 1 case of erysipelas at Ayton;
- 1 case of typhoid at Broughton.

The outbreak of scarlet fever at Yarm commenced in February, and has continued through the whole year. The origin is very difficult to trace; but having broken out, it was very easily spread,—

Firstly: On account of there being no Infectious Hospital. Arrangements were made after it had got a start, to admit cases into the Stockton Infectious Hospital. This was at first however, unfortunately often full.

Secondly: The narrow yards, and two or three cottages in each having to join at conveniences.

Thirdly: The cottages often have only two bedrooms without a fire-place, and the patient was therefore nursed in the kitchen.

Fourthly: The outbreak being as a rule of a mild character, it was impossible to keep friends and relations away, and thus the disease was spread.

Fifthly: It was impossible to arrange for the healthy children to be boarded out, and it would not have been right to have kept them in.

The above remarks apply especially to Yarm, but are applicable, perhaps not in the same degree, to other parts of the District, especially parts of Stokesley and Ayton. They can only be remedied by an Isolation Hospital for the District, or making arrangements for about half-a-dozen beds to be kept vacant at either the Stockton or Middlesbrough Hospitals.

From Yarm the outbreak spread to Hilton and Seamer; and also caused the second outbreak at Ayton.

The first outbreak in Ayton I think must have been brought by visitors.

Your Inspector has supplied all cases with disinfectants, and afterwards thoroughly fumigated the houses with carbolic. He has tried to impress upon people that they must not go into the houses, and has helped in every way to prevent the spread of infection.

Measles and whooping-cough have been prevalent in several parts of the District.

## Water.

The water supply at Yarm is from the Middlesbrough and Stockton Water Company, and is convenient in its distribution.

In the larger villages it is from public pumps, and in several cases the people have a long way to carry it.

This makes them careful in its use, and if they have not a rain water tub, tends to prevent that personal cleanliness which is so conducive to health. I think that if some of the villages would combine, water might be collected on the hills and distributed to the houses by pipes.

The water on the whole is good, but very hard.

Some of the out-lying hamlets and farm-houses are supplied by streams. These are gradually getting protected from contamination. Still a good deal requires to be done in this direction.

The water supply from the various public pumps has been attended to, and a good supply maintained.

At Great Ayton, the well near the Buck Hotel has been deepened, and the pump now gives a good supply.

At Broughton, Blue Hall well pump has been supplied with a new working barrel.

At Swainby, the village pump has been moved to a more convenient place and repaired.

At Bilsdale, a good supply has been carried in 2-inch earthenware pipes from the spring to Cross Holme, where it was much needed.

At Bilsdale Hall and the houses below nothing has yet been done to protect the water from the spring being polluted.

At Orra, a good spring is wasted for domestic use, needing protection from pollution.

## Drainage.

At Great Ayton the new sewage-disposal has worked out well; less complaints being made as to the foul smells from the man-hole covers. This may be accounted for in two ways. Firstly: by the sewer-flushing and general better working of the sewers; and secondly: by providing and suspending in cages in the man-holes where most complained of a deodorizer, soluble in a current of air. This has been carried out at the expense and under the supervision of Mr. Simpson, (District Councillor). Owing to the roads at Ayton requiring repairs, it has been found necessary to raise and re-set some of the covers of the man-holes and flushing chambers, and where the man-holes had high ventilation shafts provided the covers have been closed. An inspection chamber has been fixed at the corner of Eaton's Row, giving facilities for flushing and cleansing. The drainage from the premises occupied by Mr. Geo. Dixon, Senior, on the High Green, is still unconnected with the main sewer—the drain passing into an old culvert under the Friends' Meeting House—the agent of the adjoining private property objecting to allow the drain to pass through, as planned and provided for by the governors of the Friends' School and approved by the Sanitary Authority.

At Stokesley, on the South side, from Commercial Row corner to Bakehouse Lane the sewer has been re-laid, and a flushing chamber provided.

At Swainby, the main sewer outlet was choked near the outlet, and had to be re-laid, with better gradient.

At Faceby, the sewer at the South end of the village has been extended 55 yards with 6-inch pipes.

At Hilton, the old sewer has been re-laid and extended with sanitary pipes.

At Seamer, the sewage at the South entrance still flows by the side of the highway, past the blacksmith's shop. It is a great nuisance.

At Yarm, the sewer outlet in Strickland's Wynd has been re-laid. In West Street, owing to the heavy roller breaking down the shallow drains, it has been found necessary to deviate and re-lay the drains from Mrs. Gibson's and Mrs. Pattison's property.

At Kirklevington, the matter of sewage is in a very unsatisfactory state, owing to the opposition of Mr. Wm. Richardson (present owner) objecting to, or not allowing to be carried out, the arrangements and works of disposal agreed to and partly provided and the work done by his father, (the late Thomas Richardson, Esq.); also by interfering with the main sewer below the settling tank, and so flooding his own undrained land. An Inspector from the Local Government Board (Mr. Turner) held an inquiry in June, and visited the place, when he found the ground flooded, owing to the outlet of the tank being stopped by the removal of pipes. The tank was opened and cleaned out in July, when it was found that the internal arrangements had been interfered with and altered; they were not in accordance with the plan sanctioned by the Sanitary Authority. Since then the pipes below the tank, which were restored to their places, have again been removed, and the land flooded.

At Broughton, there is required a drain to take away the sewage by the side of the road at the high end of the village and running into the stream, near Newark Hoggarth's farm.

At Kirby, there is no drain from the house occupied by Green.

At Hilton, there is a collection of sewage on the roadside from the farm occupied by Mr. Robinson

Plans have been submitted to the Committee and approved, for alterations to Buck Hotel, Great Ayton, also for two new houses for Messrs. Harbottle Bros., in California.

At Great Broughton, for alterations to Black Horse Inn, and for a dwelling for Mr. G. Kirby.

At Hutton, for a dwellinghouse in Enterpen for Mr. Clarkson.

In parishes where plans are not required to be deposited, e.g.,—Nunthorpe: several cottages have been built, and alterations made to Nunthorpe Hall; in Bilsdale, new houses at Orra and the Green.

A magistrate's order has been needed for the closing or repairing of a house at Swainby, the "Blacksmith's Arms." It was effectual for repairs.

Scavenging has been well attended to.

At Yarm, the difficulty of disposing of rubbish other than agricultural manure is a great trouble. Many privy middens are still too large. If the drains were flushed and ventilated, cemented joints, sanitary pipes, and inspection chambers put in, I should recommend an increase in the number of water-closets, as there is a plentiful supply of water. At present it would be dangerous.

At Stokesley, the ground for a manure-deposit is a great difficulty. The accumulations are only required at certain times of the year, and taken away by the agriculturalists, at their convenience; and the separated non-manural part of the accumulation (pots, tins, stones, &c.) is a great nuisance, and causes general untidiness to the side of the road. I am glad to say the use of pan closets has increased.

Your Inspector has found the cow-sheds, dairies and slaughter-houses satisfactory. There are no special bye-laws in relation to them.

There has been no special action necessary in regard to meat, fish, vegetables, and fruit.

This, gentlemen, concludes my report, which I trust is satisfactory.

I have the honour to remain,

Gentlemen,

Your obedient Servant,

WM. M. YEOMAN,

M. O. H.



Table I.  
Stokesley Rural District Council.  
*(For Whole District.)*

YEAR.	Population estimated to middle of each year.	BIRTHS.		DEATHS under 1 year of age.		DEATHS at all ages.—Total.		Deaths in Public Institutions.	Deaths of Nonresidents registered in District.	Deaths of Residents registered beyond District.	DEATHS at all ages.—Nett.	
		Number.	Rate.*	Number	Rate per 1000 Births registered.	Number.	Rate.*				Number.	Rate.*
1	2	3	4	5	6	7	8	9	10	11	12	13
1890	12009	296	24.56	29	97.97	195	16.23	4	...	...	195	16.23
1891	11119	292	26.26	44	150.68	212	19.00	4	...	...	212	19.00
1892	11119	322	28.95	29	90.06	177	15.91	7	...	...	177	15.91
1893	11119	308	27.70	36	116.88	186	16.63	11	...	...	186	16.63
1894	11119	312	27.16	31	99.36	177	15.82	5	...	...	177	15.82
1895	11119	289	25.99	37	123.02	176	15.82	7	2	...	174	15.64
1896	11119	278	25.00	35	122.3	173	15.55	12	1	1	173	15.55
1897	11119	309	27.78	35	113.27	186	16.72	6	...	...	186	16.72
1898	11119	287	25.81	30	104.53	181	16.27	4	...	1	182	16.36
1899	11119	274	26.54	41	149.63	170	15.28	3	...	1	171	15.38
Averages for } years 1890-1899 )		296.7	26.68	34.7	116.95	183.3	16.48	6.3	0.3	0.3	183.3	16.48
1900	11119	261	23.47	29	114.94	183	16.45	6	...	1	184	16.54

\* Rates calculated per 1,000 of estimated population.

NOTE.—The deaths in Column 7 of this table are the whole of those registered during the year as having actually occurred within the district or division. The deaths in Column 12 are the number in Column 7, corrected by the subtraction of the number in Column 10 and the addition of the number in Column 11.

By the term “Non-residents” is meant persons brought into the district on account of illness, and dying there; and by the term “Residents” is meant persons who have been taken out of the district on account of illness, and have died elsewhere.

Area of District in acres (exclusive of area covered by water): 83,010. Total population at all ages at Census of 1891: 11,119.

Table II.  
Stokesley Rural Sanitary District.

NAMES OF LOCALITIES.	STOKESLEY.				AYTON.				YARM.				BROUGHTON.				HUTTON.				WHORLTON.				REMAINDER OF THE DISTRICT.			
	Population esti- mated to middle of each year.	Births registered.	Deaths at all ages.	Deaths under 1 year.	Population esti- mated to middle of each year.	Births registered.	Deaths at all ages.	Deaths under 1 year.	Population esti- mated to middle of each year.	Births registered.	Deaths at all ages.	Deaths under 1 year.	Population esti- mated to middle of each year.	Births registered.	Deaths at all ages.	Deaths under 1 year.	Population esti- mated to middle of each year.	Births registered.	Deaths at all ages.	Deaths under 1 year.	Population esti- mated to middle of each year.	Births registered.	Deaths at all ages.	Deaths under 1 year.	Population esti- mated to middle of each year.	Births registered.	Deaths at all ages.	Deaths under 1 year.
1890 ...	1801	37	26	3	1754	48	30	5	1486	46	39	7	566	5	9	...	849	20	15	1	681	11	6	1	4872	129	70	12
1891 ...	1513	34	31	6	1727	52	30	3	1608	44	38	15	504	10	10	1	821	26	20	2	434	6	8	1	4512	120	75	16
1892 ...	1513	50	30	7	1727	53	18	2	1608	42	26	4	504	17	8	1	821	23	14	...	434	9	4	...	4512	128	77	15
1893 ...	1513	40	31	7	1727	53	30	11	1608	57	29	4	504	4	3	...	821	22	12	1	434	7	7	1	4512	125	74	12
1894 ...	1513	47	31	7	1727	48	26	3	1608	43	30	4	504	13	6	1	821	35	18	6	434	9	7	...	4512	117	59	10
1895 ...	1513	40	22	2	1727	42	29	6	1608	46	25	8	504	4	9	2	821	27	19	4	434	8	2	...	4512	122	68	15
1896 ...	1513	43	22	3	1727	45	35	12	1608	43	19	2	504	8	8	...	821	17	9	1	434	6	3	...	4512	116	77	17
1897 ...	1513	47	36	3	1727	47	24	6	1608	52	29	7	504	12	9	...	821	22	14	4	434	8	7	...	4512	121	67	15
1898 ...	1513	46	26	3	1727	42	31	6	1608	51	31	10	504	5	4	...	821	22	12	1	434	7	8	...	4512	114	70	10
1899 ...	1513	49	25	7	1727	32	28	6	1608	54	29	7	504	3	10	1	821	32	18	5	434	4	9	1	4512	100	52	14
Averages of years 1890 to 1899 ...	...	43.3	28	4.8	...	46.2	28.1	6	...	47.8	29.5	6.8	...	8.1	7.6	0.6	...	24.6	15.1	2.5	...	7.5	6.1	0.4	...	119.2	68.9	13.6
1900 ...	1513	37	28	5	1727	44	35	6	1608	46	43	7	504	9	6	...	821	20	10	2	434	10	2	...	4512	95	60	9

NOTE.—Deaths of residents beyond the district are included in sub-column *c* of this Table, and those of non-residents in the district excluded. (See note on Table I. as to meaning of terms “resident” and “non-resident”).

Deaths of residents occurring in public institutions are allotted to the respective localities, according to addresses of the deceased.

Table III.  
STOKESLEY RURAL DISTRICT.  
Cases of Infectious Disease notified during the Year 1900.

NOTIFIABLE DISEASE.	CASES NOTIFIED IN WHOLE DISTRICT.					TOTAL CASES NOTIFIED IN EACH LOCALITY.							* NUMBER OF CASES REMOVED TO HOSPITAL FROM EACH LOCALITY.						
	At all Ages.	At Ages—Years.				Stokesley	Ayton.	Yarm.	Broughton.	Hutton.	Whorlton.	Remainder of District.	Stokesley.	Ayton.	Yarm.	Broughton.	Hutton.	Whorlton.	Remainder of District.
		Under 1.	1 to 5.	5 to 15	15 to 25.														
Small-pox ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cholera ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diphtheria ..	1	..	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..
Membranous croup	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Erysipelas ..	1	..	..	..	..	1	..	1	..	..	..	..	..	..	..	..	..	..	..
Scarlet fever	84	..	15	56	8	5	1	14	50	..	2	17	..	..	13	..	..	..	1
Typhus fever	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Enteric fever	1	..	..	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..
Relapsing fever	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Continued fever	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Puerperal fever	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Plague ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Totals ..	87	..	15	57	9	6	1	15	51	1	2	..	17	..	13	..	..	..	1

\* The cases from Yarm have been removed to the Stockton Hospital. The one at Nunthorpe, to Middlesbrough.



Table IV.

STOKESLEY RURAL DISTRICT.

Causes of, and Ages at, Death during Year 1900.

CAUSES OF DEATH.	DEATHS IN WHOLE DISTRICT AT SUBJOINED AGES.							DEATHS IN LOCALITIES. (AT ALL AGES).							
	All ages.	Under 1.	1 and under 5.	5 and under 15.	15 and under 25.	25 and under 65.	65 and upwards.	Stokesley.	Great Ayton.	Yarm.	Broughton.	Hutton.	Whorlton.	Remainder of District.	Workhouse.
Scarlet fever .. .. .	2	..	1	1	..	..	..	..	..	2	..	..	..	..	..
Whooping-cough .. .. .	1	..	1	..	..	..	..	..	..	..	..	..	..	..	1
Diphtheria and membranous croup .. .. .	1	..	..	1	..	..	..	..	..	1	..	..	..	..	..
Epidemic influenza .. .. .	7	..	..	1	..	3	3	..	2	1	3	..	..	1	..
Diarrhœa .. .. .	1	..	..	..	..	..	1	..	1	..	..	..	..	..	..
Enteritis .. .. .	4	2	..	..	..	..	2	..	1	2	..	..	..	1	..
Erysipelas .. .. .	1	..	..	..	..	1	..	..	1	..	..	..	..	..	..
Phthisis .. .. .	6	..	..	..	1	5	..	..	1	1	..	..	..	3	1
Other tubercular diseases .. .. .	2	..	2	..	..	..	..	1	1	..	..	..	..	..	..
Cancer, malignant disease .. .. .	11	..	..	..	..	9	2	..	3	3	..	..	..	4	1
Bronchitis .. .. .	16	4	3	..	..	1	8	1	2	7	..	..	..	6	..
Pneumonia .. .. .	10	2	2	1	..	4	1	2	1	4	..	2	..	1	..
Other diseases of Respiratory organs .. .. .	1	..	..	..	..	1	..	1	..	..	..	..	..	..	..
Alcoholism .. .. .	2	..	..	..	..	1	1	1	..	1	..	..	..	..	..
Cirrhosis of liver .. .. .	2	..	..	..	..	1	1	1	..	1	..	..	..	..	..
Premature birth .. .. .	4	4	..	..	..	..	..	..	2	..	..	..	..	2	..
Diseases and accidents of parturition .. .. .	2	..	..	..	..	2	..	..	1	..	..	..	..	1	..
Heart diseases .. .. .	21	..	..	1	1	7	12	4	4	5	..	1	..	7	..
Accidents .. .. .	3	1	1	..	..	1	..	..	..	2	..	..	..	1	..
Suicides .. .. .	1	..	..	..	..	1	..	1	..	..	..	..	..	..	..
Found dead on the North Eastern Railway .. .. .	1	..	..	..	1	..	..	..	..	1	..	..	..	..	..
All other causes .. .. .	86	16	6	2	2	12	48	17	15	12	3	7	2	27	3
All causes .. .. .	183	29	16	7	5	48	78	28	35	42	6	10	2	54	6



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